SECTION 11403 - FOOD SERVICE DISTRIBUTION VEHICLES

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes food service distribution vehicles indicated on attached schedule in Part 4.

1.2 DEFINITIONS

A. Terminology Standard: Refer to NSF 2, "Food Equipment" or other applicable NSF standards for definitions of food service equipment and installation terms not otherwise defined in this Section or in other referenced standards.

1.3 SUBMITTALS

A. Product Data: For each vehicle indicated. Include manufacturer's model number and accessories and requirements.

B. Shop Drawings: For food service distribution vehicles. Include plans, elevations and sections in a minimum scale of 3/4" = 1'-0", roughing-in dimensions, fabrication details, and service requirements.

C. Refrigeration System Piping Diagrams: Details of piping systems and differentiating between manufacturer-installed and field-installed piping.

D. Samples for Initial Selection: Manufacturer's color charts showing the full range of colors available for exposed products with color finishes.

E. Samples for Verification: Of each type of exposed finish required, minimum 4-inch-square or 6-inch- long sections of linear shapes and of same thickness and material indicated for work. Where finishes involve normal color and texture variations, include Sample sets showing the full range of variations expected.

F. Product Certificates: Signed by manufacturers of refrigeration systems or their authorized agents certifying that systems furnished comply with requirements and will maintain operating temperatures indicated in the areas or equipment that they will serve.

G. Maintenance Data: Operation, maintenance, and parts data for food service equipment to include in the maintenance manuals specified in Division 1. Include a product schedule as follows:

H. Refrigeration System Piping Diagrams: Details of piping systems and differentiating between manufacturer-installed and field-installed piping.

I. Product Schedule: For each food service equipment item, include item number and description indicated in Contract Documents, manufacturer's name and model number, and authorized service agencies' addresses and telephone numbers.

1.4 QUALITY ASSURANCE

A. Manufacturer Qualifications: Engage a firm experienced in manufacturing food service distribution vehicles similar to that indicated for this Project and with a record of successful in service performance.

B. Source Limitations: Obtain each type of food service equipment through one source from a single manufacturer.

C. ASHRAE Compliance: Provide mechanical refrigeration systems complying with the American Society of Heating, Refrigerating and Air-Conditioning Engineers' ASHRAE 15, "Safety Code for Mechanical Refrigeration".

D. NSF Standards: Comply with applicable NSF International (NSF) standards and criteria and provide NSF Certification Mark on each equipment item, unless otherwise indicated.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver food service distribution vehicles as factory-assembled units with protective covering.

1.6 WARRANTY

A. General Warranty: The special warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents.

B. Refrigeration Compressor Warranty: Submit a written warranty signed by manufacturer agreeing to repair or replace compressors that fail in materials or workmanship within the specified warranty period. Failures include, but are not limited to, the following:

1. Breakage.
2. Faulty operation.

C. Warranty Period: 5 years from date of Substantial Completion for refrigeration compressors. All other equipment provided shall include a one-year warranty covering all parts and labor, plus any extended warranties as normally provided by individual manufacturers. All equipment including refrigeration systems both self-contained and remote shall be warrantied by the installer on the project for one year

as indicated in the preceding sentence. The warranty begins the first day of the first year the equipment is put into operation by the Owner of the facility.

PART 2 - PRODUCTS

2.1 FOODSERVICE DISTRIBUTION VEHICLE

A. The Gross Vehicle Weight Rating (GVWR) shall be no less than 10,000 pounds. The maximum payload shall be no less than 5,072 pounds.

B. The wheelbase shall be no less than and not exceed 139 inches.

C. The vehicle engine shall be a gasoline Vortec 6.0 liter V8 with no less than 300 horsepower at 4400 RPM, electronic fuel injection with heavy-duty radiator. The engine shall operate efficiently on regular 87 octane unleaded gasoline, E10 gasoline or E85 flex-fuel/ethanol.

D. The front axle suspension capacity shall be adequate for the GVWR. The truck shall be equipped with heavy-duty springs and shock absorbers with independent stabilizer bar and coil springs. The front axle capacity shall be no less than 4,300 pounds. The front spring capacity shall be no less than 4100 pounds.

E. The rear axle suspension capacity shall be adequate for the GVWR. The truck shall be equipped with heavy-duty springs, shock absorbers with hypoid drive axle with leaf springs. The rear axle and rear spring capacity shall be no less than 6,084 pounds.

F. The truck shall have power steering.

G. Brakes shall be power hydraulic four-wheeled ventilated disc with antilock brake system (ABS): four-wheel with Dynamic Rear Proportioning.

H. The transmission shall be Hydra-Matic heavy-duty four-speed overdrive automatic with Tow/Haul mode. The vehicle shall have an automatic, audible back up alarm, activated when the transmission is put into reverse.

I. The truck's electrical system shall be no less than a 145-amp alternator and shall be equipped with a heavy duty, high capacity maintenance free battery rated no less than 770 cold cranking amps. (CCA) at 0 degrees Fahrenheit.

J. The truck shall be equipped with temperature, oil, and voltmeter gauges.

K. Windshield wipers shall be variable speed with adjustable intermittent settings.

L. The truck shall have 16.0 x 6.5 steel rims and shall be equipped with dual rear wheels. The wheels shall be the one-piece type – no split rim type wheels will be accepted.

M. The tires shall be all terrain mud/snow steel belted radials that are adequate for GVW and fitted with mud flaps.

N. The overall length of the truck shall be approximately 221 inches.

O. The overall width of the truck shall be approximately 96 inches.

P. The fuel tank capacity shall no less than 33 gallons and or be the largest available from the manufacturer that is compatible with the truck chassis and body.

Q. Windows shall be tinted safety glass.

R. The truck shall be equipped with right and left side, below eye level mirrors approximately 6.5 inches wide X 10 inches high.

S. The truck shall have two single seats (driver and passenger). The color shall be selected at the time of award. Bidders shall submit a list of available colors with their bids.

T. The truck shall be painted a bright glossy white.

U. The truck shall have an AM/FM radio.

V. The front bumper shall be manufacturer is standard wrap around style.

W. The Truck Body: Shall be heavy duty, manufacturer's standard steel and/or aluminum and shall be of a commercially acceptable design and construction for refrigeration. The body will be fabricated with 4-inch I-Beams along the full length and 3-inch I-Beams 2-inches on center along the width. Interior lining shall be seamless 0.09-inch glassboard on sides, front and ceiling. Cargo control shall consist two (2) rows of surface-mounted E-track; two (2) E-shoring bars located per Owner. Front corner posts shall be extruded aluminum. Interior lights shall consist of one recessed dome light with a three-way switch. Walls shall be 0.40-inch aluminum finished pre-painted white. The interior load space floor shall have no exposed wheel wells and shall be 38 inches from the ground. The interior load space floor shall be approximately 144 inches from front to back and approximately 92 inches across. The interior load space height shall be no less than 80 inches. The interior of the truck body walls shall be overlaid with no less than 1/8 inch thick polished sheet aluminum. The entire load space floor shall be overlaid with 1/8 inch thick (hard unbendable type) diamond tread pattern aluminum, securely fastened to the standard manufacturers structural frame. Provide four (4) kazoo drains, one at each corner of the floor. The truck body shall have a 1-1/8 inch thick by 48-inch wide by 71-inch high insulated rear roll up door with stainless steel rivets. Door shall be complete with locking mechanism, latches, two (2) handles on each side and straps. The truck's cargo body roof shall be a commercially acceptable, heavy duty, full length and width one piece 0.032-inch aluminum, crowned. The truck shall have the manufacturer's standard undercoating. The refrigeration unit shall be a Carrier 30S with 115 volt electric standby or approved

equal. Refrigeration system and body insulation shall maintain a compartment temperature of 35 degrees Fahrenheit. Insulation shall be as follows:

1. Walls: 2-inch poured polyurethane foam.
2. Front: 4-inch poured polyurethane foam.
3. Ceiling: 3-inch poured polyurethane foam.
4. Floor above Cross members: 3-inch polyurethane foam.

X. Rear Tailgate Lift: The truck shall be equipped with a 4" heavy duty, all aluminum construction, commercially acceptable design, fixed, bolt up – rail type system with fully automatic hydraulic controls. The platform shall be approximately 92 inches wide X 48 inches from front to back, all aluminum design with diamond or jelly bean safety tread pattern. The lift shall have a fixed angled end lip, rated the same as the lift, to accommodate loading and unloading. The lift system shall have the flexibility, through adjustments to go above and below the interior load space floor height. The lift system shall be rated no less than -2,000 pound capacity. System shall have two (2) raise – lower control, rocker type switches, one placed at the right rear exterior corner behind the wheel at no less than four (4) feet off of the ground and the second one placed at the upper right rear interior side at the corner, no less than 20 inches off the finished floor. The lift shall automatically fold, unfold, rise, and lower up to a vertical position to be even with the trucks interior floor as well as to and unfold to a horizontal position. The lift shall be wired through the ignition so as to prevent operation while the motor is off. Tommy 89-20AAB series lift gate, brand name or equal to said specifications. Provide a general purpose Railgate with pre-assembled, self contained pump and cylinder for reduced maintenance and automatic safety latch for hands free disengagement of platform. The torsion bar assist platform shall be steel with a 12 inch deep x 92 inches fixed aluminum diamond or jelly bean tread tapered transition plate platform. Level ride. 150 amp circuit protection. .

Y. The vehicle offered shall be the standard proven model of the manufacturer's latest, current production and shall include all standard equipment as advertised with additional equipment listed above. All components, unless otherwise required by these specifications shall be the standard or optional equipment specifically advertised and installed by the manufacturer.

Z. The vehicle to be furnished shall conform to all applicable Federal and State Motor Vehicle Safety Standards and all equipment shall conform to Title 46.2 Chapter 10 of the Code of Virginia and shall include a valid Virginia State Inspection Sticker valid for one year after the vehicle is delivered MATERIALS

2.2 ACCESSORIES

A. Cabinet Hardware: Provide NSF-certified stainless steel hardware for equipment items as indicated.

PART 3 – EXECUTION (NOT USED)